

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/534,788  
Source: PT/10  
Date Processed by STIC: 5/23/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

BEST AVAILABLE COPIE

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/534,788</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input checked="" type="checkbox"/> Wrapped Nucleic Acid	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input checked="" type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input checked="" type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input checked="" type="checkbox"/> Variable Length	Sequence(s) <u>5b-57</u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input checked="" type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u>      </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input checked="" type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <u>      </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input checked="" type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <u>      </u> missing. If intentional, please insert the following lines for each skipped sequence: <210> sequence id number <400> sequence id number 000	
9 <input checked="" type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input checked="" type="checkbox"/> Use of <220>	Sequence(s) <u>      </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input checked="" type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input checked="" type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/534,788

DATE: 05/23/2005  
TIME: 13:47:31

Input Set : D:\VOSS007.txt  
Output Set: N:\CRF4\05232005\J534788.raw

```

3 <110> APPLICANT: BAUERLE, PATRICK
4      HOFFMANN, PATRICK
5      WEINBERGER, SUSANNE
6      KISCHEL, ROMAN
8 <120> TITLE OF INVENTION: METHOD FOR IDENTIFYING ANTIGEN SPECIFIC B CELLS
10 <130> FILE REFERENCE: VOSS:007US
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/534,788
13 <141> CURRENT FILING DATE: 2005-05-13
15 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/012664
16 <151> PRIOR FILING DATE: 2003-11-12
18 <160> NUMBER OF SEQ ID NOS: 89
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 21
24 <212> TYPE: DNA
25 <213> ORGANISM: artificial sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: mus musculus primer
30 <400> SEQUENCE: 1
31 accttcaaca ccccgccat g
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 23
36 <212> TYPE: DNA
37 <213> ORGANISM: artificial sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: mus musculus primer
42 <400> SEQUENCE: 2
43 gtcgggtcag gatttcatg agg
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 20
48 <212> TYPE: DNA
49 <213> ORGANISM: artificial sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: mus musculus primer
54 <400> SEQUENCE: 3
55 gctacacatt cagtagctc
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 20
60 <212> TYPE: DNA
61 <213> ORGANISM: artificial sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: mus musculus primer
66 <400> SEQUENCE: 4

```

*Does Not Comply  
Corrected Diskette Neede'*

*PP.2, 6-8*

21

23

20

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/534,788

DATE: 05/23/2005  
TIME: 13:47:31

Input Set : D:\VOSS007.txt  
Output Set: N:\CRF4\05232005\J534788.raw

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67 gtatggcatg tttaccatcg 20
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 20
72 <212> TYPE: DNA
73 <213> ORGANISM: artificial sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: mus musculus primer
78 <400> SEQUENCE: 5
79 tcagtagctt ctggatagag
82 <210> SEQ ID NO: 6 20
83 <211> LENGTH: 26 invalid <213> response. See item 10 on Error summary sheet.
84 <212> TYPE: DNA
C--> 85 <213> ORGANISM: artificial primer → This section is mandatory
W--> 87 <220> FEATURE: of <213> response
W--> 87 <223> OTHER INFORMATION: "is Artificial Sequence"
W--> 87 <400> 6 26
88 gtatggcatg tttaccatcg tattac
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 20
93 <212> TYPE: DNA
94 <213> ORGANISM: artificial sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: mus musculus primer
99 <400> SEQUENCE: 7 20
100 gttacaattt ctccgacaag
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 20
105 <212> TYPE: DNA
106 <213> ORGANISM: artificial sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: mus musculus primer
111 <400> SEQUENCE: 8 20
112 gtcgcaggcg gaataatcac
115 <210> SEQ ID NO: 9
116 <211> LENGTH: 20
117 <212> TYPE: DNA
118 <213> ORGANISM: artificial sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: mus musculus primer
123 <400> SEQUENCE: 9 20
124 tctccgacaa gtggattcac
127 <210> SEQ ID NO: 10
128 <211> LENGTH: 20
129 <212> TYPE: DNA
130 <213> ORGANISM: artificial sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: mus musculus primer
135 <400> SEQUENCE: 10 20
136 gcaggcggaa taatcacccg

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/534,788

DATE: 05/23/2005  
TIME: 13:47:31

Input Set : D:\VOSS007.txt  
Output Set: N:\CRF4\05232005\J534788.raw

139 <210> SEQ ID NO: 11  
140 <211> LENGTH: 21  
141 <212> TYPE: DNA  
142 <213> ORGANISM: artificial sequence  
144 <220> FEATURE:  
145 <223> OTHER INFORMATION: homo sapiens primer  
147 <400> SEQUENCE: 11  
148 tggcagatga gcttggactt g 21  
151 <210> SEQ ID NO: 12  
152 <211> LENGTH: 21  
153 <212> TYPE: DNA  
154 <213> ORGANISM: artificial sequence  
156 <220> FEATURE:  
157 <223> OTHER INFORMATION: homo sapiens primer  
159 <400> SEQUENCE: 12  
160 acactctccc ctgttgaagc t 21  
163 <210> SEQ ID NO: 13  
164 <211> LENGTH: 20  
165 <212> TYPE: DNA  
166 <213> ORGANISM: artificial sequence  
168 <220> FEATURE:  
169 <223> OTHER INFORMATION: homo sapiens primer  
171 <400> SEQUENCE: 13  
172 gtgctccctt catgcgtgac 20  
175 <210> SEQ ID NO: 14  
176 <211> LENGTH: 21  
177 <212> TYPE: DNA  
178 <213> ORGANISM: artificial sequence  
180 <220> FEATURE:  
181 <223> OTHER INFORMATION: homo sapiens primer  
183 <400> SEQUENCE: 14  
184 actcgtaata ctcctgcttg c 21  
187 <210> SEQ ID NO: 15  
188 <211> LENGTH: 24  
189 <212> TYPE: DNA  
190 <213> ORGANISM: artificial sequence  
192 <220> FEATURE:  
193 <223> OTHER INFORMATION: homo sapiens primer  
195 <400> SEQUENCE: 15  
196 tggaaaggac acgttctttt cttt 24  
199 <210> SEQ ID NO: 16  
200 <211> LENGTH: 20  
201 <212> TYPE: DNA  
202 <213> ORGANISM: artificial sequence  
204 <220> FEATURE:  
205 <223> OTHER INFORMATION: homo sapiens primer  
207 <400> SEQUENCE: 16  
208 agttacccga ttggaggcg 20  
211 <210> SEQ ID NO: 17

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/534,788

DATE: 05/23/2005  
TIME: 13:47:31

Input Set : D:\VOSS007.txt  
Output Set: N:\CRF4\05232005\J534788.raw

212 <211> LENGTH: 19  
213 <212> TYPE: DNA  
214 <213> ORGANISM: artificial sequence  
216 <220> FEATURE:  
217 <223> OTHER INFORMATION: homo sapiens primer  
219 <400> SEQUENCE: 17 19  
220 cttccaggc cactgtcac  
223 <210> SEQ ID NO: 18  
224 <211> LENGTH: 20  
225 <212> TYPE: DNA  
226 <213> ORGANISM: artificial sequence  
228 <220> FEATURE:  
229 <223> OTHER INFORMATION: homo sapiens primer  
231 <400> SEQUENCE: 18 20  
232 gtggggcgcc ccagcacca  
235 <210> SEQ ID NO: 19  
236 <211> LENGTH: 23  
237 <212> TYPE: DNA  
238 <213> ORGANISM: artificial sequence  
240 <220> FEATURE:  
241 <223> OTHER INFORMATION: homo sapiens primer  
243 <400> SEQUENCE: 19 23  
244 gatggaggcg gcgcattccaca cg 23  
247 <210> SEQ ID NO: 20  
248 <211> LENGTH: 23  
249 <212> TYPE: DNA  
250 <213> ORGANISM: artificial sequence  
252 <220> FEATURE:  
253 <223> OTHER INFORMATION: homo sapiens primer  
255 <400> SEQUENCE: 20 23  
256 cagrtgcagc tggtgcartc tgg  
259 <210> SEQ ID NO: 21  
260 <211> LENGTH: 23  
261 <212> TYPE: DNA  
262 <213> ORGANISM: artificial sequence  
264 <220> FEATURE:  
265 <223> OTHER INFORMATION: homo sapiens primer  
267 <400> SEQUENCE: 21 23  
268 saggtccagc tggtrcagtc tgg  
271 <210> SEQ ID NO: 22  
272 <211> LENGTH: 23  
273 <212> TYPE: DNA  
274 <213> ORGANISM: artificial sequence  
276 <220> FEATURE:  
277 <223> OTHER INFORMATION: homo sapiens primer  
279 <400> SEQUENCE: 22 23  
280 caggtccagc ttgtacagtc tgg  
283 <210> SEQ ID NO: 23  
284 <211> LENGTH: 23

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/534,788

DATE: 05/23/2005  
TIME: 13:47:31

Input Set : D:\VOSS007.txt  
Output Set: N:\CRF4\05232005\J534788.raw

285 <212> TYPE: DNA  
286 <213> ORGANISM: artificial sequence  
288 <220> FEATURE:  
289 <223> OTHER INFORMATION: homo sapiens primer  
291 <400> SEQUENCE: 23  
292 sagrtcacct tgaaggagtc tgg 23  
295 <210> SEQ ID NO: 24  
296 <211> LENGTH: 23  
297 <212> TYPE: DNA  
298 <213> ORGANISM: artificial sequence  
300 <220> FEATURE:  
301 <223> OTHER INFORMATION: homo sapiens primer  
303 <400> SEQUENCE: 24 23  
304 saggtgcagc tggtgartc tgg  
307 <210> SEQ ID NO: 25  
308 <211> LENGTH: 23  
309 <212> TYPE: DNA  
310 <213> ORGANISM: artificial sequence  
312 <220> FEATURE:  
313 <223> OTHER INFORMATION: homo sapiens primer  
315 <400> SEQUENCE: 25  
316 gaggtgcagc tgktggagwc ygg 23  
319 <210> SEQ ID NO: 26  
320 <211> LENGTH: 23  
321 <212> TYPE: DNA  
322 <213> ORGANISM: artificial sequence  
324 <220> FEATURE:  
325 <223> OTHER INFORMATION: homo sapiens primer  
327 <400> SEQUENCE: 26 23  
328 cagctgcagc tacagcagtg ggg  
331 <210> SEQ ID NO: 27  
332 <211> LENGTH: 23  
333 <212> TYPE: DNA  
334 <213> ORGANISM: artificial sequence  
336 <220> FEATURE:  
337 <223> OTHER INFORMATION: homo sapiens primer  
339 <400> SEQUENCE: 27  
340 cagstgcagc tgcaggagtc sgg 23  
343 <210> SEQ ID NO: 28  
344 <211> LENGTH: 23  
345 <212> TYPE: DNA  
346 <213> ORGANISM: artificial sequence  
348 <220> FEATURE:  
349 <223> OTHER INFORMATION: homo sapiens primer  
351 <400> SEQUENCE: 28  
352 gargetgcagc tggtgcaagt tgg 23  
355 <210> SEQ ID NO: 29  
356 <211> LENGTH: 23  
357 <212> TYPE: DNA

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<210> 42  
<211> 23 Artificial  
<212> DNA  
<213> artificial sequence

see p. 8 for error explanation

<400> 42  
cagccwgkgc tgactcagcc mcc

23

<210> 56  
<211> 31  
<212> DNA  
<213> artificial sequence

<220>  
<223> homo sapiens primer

<220>  
<221> misc\_feature  
<222> (31)..(31)

<223> n denotes a variable number of nucleotides which are part of the sequence of specific VL clones

variable length is not permitted  
(see item 5 on Error summary sheet)

<400> 56  
ggagccgccc cgcgcagaac caccaccacc n

31

If "indefinite"  
is intended,  
please state  
that on the  
(223) line

same error  
in sequence 57

8

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/534,788

DATE: 05/23/2005  
TIME: 13:47:32

Input Set : D:\VOSS007.txt  
Output Set: N:\CRF4\05232005\J534788.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:56; N Pos. 31

Seq#:57; N Pos. 34

Use of <220> Feature(NEW RULES):

*error explanation'*  
Sequence(s) are missing the <220> Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"  
or "Unknown". Please explain source of genetic material in <220> to <223>  
section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)  
(Sec.1.823 of new Rules)

Seq#:6,42

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/534,788

DATE: 05/23/2005  
TIME: 13:47:32

Input Set : D:\VOSS007.txt  
Output Set: N:\CRF4\05232005\J534788.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:85 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:87 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:6, <213>  
ORGANISM:Artificial Sequence  
L:87 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:6, <213>  
ORGANISM:Artificial Sequence  
L:87 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:87  
L:514 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42  
L:516 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:42, <213>  
ORGANISM:Artificial Sequence  
L:516 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:42, <213>  
ORGANISM:Artificial Sequence  
L:516 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:42,Line#:516  
L:692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0  
L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0